

Kyle K. Wilkinson

Cell: 248-296-1490 – Home: 248-363-5889 – Email: kylewilk@umich.edu

Education

The University of Michigan – College of Engineering - Ann Arbor, MI

Bachelor of Science in Computer Science, Minor in Electrical Engineering - Anticipated May 2023

- GPA: 3.85/4.00
- Coursework in Dynamics and Vibrations, Design and Manufacturing, Circuits, Calculus 1-4, Linear Algebra, Solid Mechanics, Programming and Data Structures, Statistics, and Logic Design.
- Recipient of Regents Scholarship 2019-2020
- Member of SAE Supermileage Team
- Strong understanding of Java, C++, SolidWorks, Python, MATLAB, Git, and Excel

Walled Lake Northern High School – Commerce Township, MI

Graduated June 2019

- Unweighted GPA: 3.96/4.00
- SAT: 1480 ACT: 33

Work Experience

University of Michigan Research Assistant

May 2021 – Present

Automatic Fault Detection for FDM 3D Printing (May 2021 – September 2021)

- Created algorithms to detect faults using real-time data and touch-probe sensor and made existing algorithms more efficient.
- Used multi-processing to allow for sample-point generation and 3D printing concurrently with Python.
- Created an advanced, user-friendly interface using HTML, CSS, JavaScript, Bootstrap, and Knockout.

Fault Prediction for FDM 3D Printing (September 2021 – Present)

- Using PyTorch to develop a neural network that effectively predicts faults using 3D printer settings and GCODE.

Game Development – Project Owner / Developer

April 2020 – Present

- Program software for a gaming platform using Java.
- Basic knowledge of SQL and integration of MySQL databases with software.
- Creation of support bot using a neural network
- Experience working with larger programs and gained important skills in code organization

Dairy Twist Café – Customer Service

May – July 2018

Oakland Yard – Karate Instructor

June – August 2016

Leadership

University of Michigan Supermileage SAE Team

January 2020 – Present

Internal Combustion Team Member

- Researched transmission designs to be used in our vehicle with the goal to increase fuel efficiency.

Tau Beta Pi (Engineering honor society)

December 2020 – Present

Scouts BSA

2012 – August 2019

Eagle Scout (June 2019)

- Fundraised for, designed, and built 3 Little Free Pantries for local elementary schools to feed families.
- Worked with a local church, school district, and Hospitality House to make sure everyone's needs were satisfied and was kept up-to-date with progress.
- Awarded Outstanding Student Volunteer of 2019 by Lakes Area Chamber of Commerce for dedication to community service through Interact and Eagle Scout Project.

Troop Leadership

- Troop Guide (2 years) - Introduced new scouts to the troop. Helped the new patrol work independently by guiding the patrol leader. Assisted the leader when necessary and taught basic skills to the patrol.
- Order of the Arrow (Boy Scout Honor Society) – Inducted 2017, Brotherhood 2019

Interact Service Club (Rotary International)

April 2015 – April 2019

President (2017-2019)

- Led board members and presented at meetings. Delegated tasks to board members and made sure everything ran smoothly.
- Organized a multi-school fundraiser for ShelterBox to assist those affected by Hurricane Harvey – Raised over \$1,000.